Resolve a weight of 10 N in two direct and perpendicular to a slope inclined at 30° to the hospitation Component perpendicular to the plane

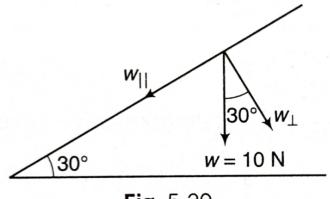


Fig. 5.29

$$w_{\perp} = w \cos 30^{\circ}$$

= $(10) \frac{\sqrt{3}}{2} = 5\sqrt{3} \text{ N}$

and component parallel to the plane

$$w_{||} = w \sin 30^{\circ} = (10) \left(\frac{1}{2}\right)$$

= 5 N